



MEMORANDUM

TO: Patrick Goddard, Director of Facilities, Town of Lexington
Paul B. Ash, Ph.D., Superintendent, Lexington Public Schools

FROM: David L. MacIntosh, Sc.D., Principal Scientist
Matt A. Fragala, M.S., C.I.H., Senior Scientist

DATE: October 7, 2011

RE: 2011 – 2012 Air Sampling Plan, Estabrook Elementary School, Lexington,
Massachusetts (EH&E 17892)

Environmental Health & Engineering, Inc. (EH&E) provides this summary of the proposed 2011 – 2012 air sampling plan for polychlorinated biphenyls (PCBs) in indoor air of Estabrook Elementary School (the School), Lexington, Massachusetts. The air sampling plan is based on the Operation and Maintenance Plan for the School and suggestions from the Estabrook community provided to the Town of Lexington and EH&E during the September 26, 2011, meeting and in subsequent email correspondence. During the meeting the Town of Lexington agreed to collect 40 samples, test all classrooms, and modify the sampling dates to fill in missing temperature ranges.

EH&E has incorporated these suggestions into the plan and proposes to begin by sampling classrooms on October 7, 2011. Three additional rounds of sampling will be planned for December, April, and June. Samples collected on October 7, 2011, are anticipated to be during moderate temperature conditions. The results will be used to refine the predicted school year average concentrations. In addition, samples collected during moderate temperature conditions will be used to further evaluate the relationship between temperature and airborne PCB concentrations in the School. If the October 7, 2011, sampling results substantially alter the predicted school year average range of 115 to 125 nanograms per cubic meter (ng/m³) (August 29, 2011, Memorandum) the December round of sampling will be moved to early November to target additional moderate ambient temperature conditions.

Sampling dates will be scheduled for school holidays or Saturdays to minimize disruption in the School. Sampling will start at approximately 8:30 a.m. and stop at approximately 3:30 p.m. to correspond to a typical school day. For quality control, sampling will include outdoor air samples, duplicate samples, and field blanks. Mechanical systems in the School will be operated in accordance with the Operation and Maintenance Plan. Ambient temperature and classroom temperature will be measured during sampling. Table 1 includes a list of the Estabrook rooms and proposed sampling dates.

Table 1 2011 – 2012 Air Sampling Plan, Estabrook Elementary School, Lexington, Massachusetts					
Room	Staff	October 2011	December 2011	April* 2012	June* 2012
1	Drisko		X		X
2	Berenson	X		X	
3	O'Hare-Gibson		X		X
4	Linton	X		X	
5	Kramer		X		X
6	Silvey		X		X
7a	Intervention				
7b	Royal				
7c	Gee				
11	Quebec		X		X
13	Verity	X		X	
19	Horan		X		X
Art	Durrell			X	
Music	Matthews				
20	Taddeo	X		X	
21A	Pierrelouis	X		X	
21B	Pierrelouis	X		X	
22	Bourret		X		X
23	Modoono		X		X
24	Silberman	X		X	
25	Lombardo		X		X
26	St. Onge				
27	Lieberman				
31A	Durkin	X		X	
31B	Barker		X		X
39B	Turner	X		X	
39C	Richardson		X		X
Teachers	Teachers				
Kitchen	Chartwells				
Gym	Hassan				X
Library	Kuhn	X			
Work Area	Teachers				
* Additional sample locations may be added based on the results of the previous sampling events.					

If you have any questions regarding this memorandum, please do not hesitate to contact us at 1-800-TALK EHE (1-800-825-5343).